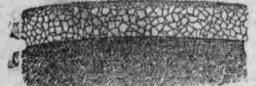


HEAVY ROLLERS ON DIRT ROADS.

They Give the Firm and Consistency That Are Essential to All Good Roads. Every day it is becoming more firmly established that a good road roller is the most valuable piece of machinery employed in the roadmaker's art...

If a length of 1,000 yards in an ordinary earth road be cut to an exact and uniform grade one foot below the original surface of the road, it will be found in most cases that the new surface thus exposed will present an appearance which to the ordinary observer is of a uniform material and even hardness from end to end.



MACADAM ROADWAY ON ROLLED EARTH FOUNDATION.

feet and soft spots located at irregular intervals throughout the length of the work, and as the process of rolling continues the uniformity of the grade will disappear, and what at first appeared to be a tolerably satisfactory surface will develop into a succession of humps, holes and undulations.

In the using of the roller in actual work these depressions and soft spots are carefully filled and brought to the line of the required grade, while the successive passing of the heavy roller over the filling gives to the entire road that firm and consistency which are so essential to every good highway.

All dirt roads become hard and passable by the use of a roller. Every wagon wheel acts as a roller upon the road surface, and the value of its rolling qualities depends upon the width of the wheel treads and the load which the wheel sustains, but the wagon wheel is generally made so narrow as to create ruts in many cases, and its use always tends to develop the weak spots, humps, holes and undulations which are so quickly revealed in the use of the regular roller.

The result is that the roadway on both sides of these beaten tracks is often left in a soft, muddy or rutty condition, and when two heavily loaded vehicles are compelled to pass each other the necessity of turning out results in a breakdown or in the delay and difficulty which are familiar to every farmer just in proportion to the number of times that he has been stuck in the mud by reason of the conditions here described.

Influence of Good Roads on Country Life.

The improvement of country roads undertaken upon a large scale would decentralize labor while it was in progress as well as afterward. There would be a large floating population of laborers in the country while the work was proceeding. With the improvement of the roads would come a great improvement in the conditions of country life; greater facilities for social gatherings, church and school attendance; the discussion of public questions; cheaper and easier transportation and improved access to the towns; less dependence upon the railways.

One defect of the railway system is its tendency to build up large cities at the expense of small towns and villages. Good roads help to build up thriving market towns and other small communities. Then they cannot be monopolized like railways. There can be no oppressive tariffs for carriage, nor discriminating rates, nor disputes about long and short hauls. They are the people's roads. There is no need of any movement to nationalize them. They are already nationalized, and all that is needed is for the nation to recognize the value and the splendid possibilities of its own property.

Fair and free, night and day. Fair and free is the king's highway. —Toronto Globe.

Broad Tires Improve Roads.

The introduction of broad tires upon all farm wagons and carts adapted for heavy draft purposes alone would do much to improve roads, since half the trouble seems to arise from heavy loads carting over country roads at seasons of the year when the ground is soft. At Toronto, where all draft wagons are prohibited an entry unless furnished with broad tread wheels, the tremendous advantage over the ordinary tires has been plainly proved, for there, even when the roads are softest and at their worst, they never cut up through the constant carting of heavy loads of brick or stone.—Exchange.

Road Repairing.

Road repairing is a practical rather than a theoretical art. The first requisite is a lot of tools, consisting of a roller, one road drag, two wheel scrapers, two alash scrapers, road plow and other paraphernalia. The crew should consist of a sufficient number and an expert roadmaker. First and most important is drainage.—W. S. Chownen.

World's Fair Passes.

The number of free season passes to the World's fair issued by the exposition officials is estimated at 800,000. On each of these is the photograph of the holder, so as to prevent use by another. The pass is in the form of a book 3 1/2 by 5 1/2 inches, containing 181 admission coupons, or one for each day of the six months. They are issued to officials, employees, exhibitors, newspaper men, foreign commissioners, etc.—Pittsburg Dispatch.

The College Graduate.

A great number of the graduates of the world this year are graduates of both sexes. It is a common thing, too, that annually a larger percentage of young men and women graduate from the special schools and enter the field of real life. The former idea of a college education has almost passed away. In place of the college which turned out students all put through the same mill of Latin, Greek and mathematics, we have now hundreds of special schools giving the young learner a particular training for his chosen walk of life. The university was supposed to fit the youth for a profession after he had finished the Latin and Greek course. But the university course takes too long in our time. Intelligent young people with a good common school education as a foundation want a special school that will fit them in two years, or three at most, for earning their living.

It is useless to cry out against the superficiality of this. It is the trend of the time. The special courses of instruction that are coming into existence everywhere are meeting the need. The bread and butter want must be met first. Therefore the youth with his own living to earn should think carefully about the matter and choose, or have chosen for him, the school that will give him the instruction he will need in his walk of life. Thus armed he will be able to gain for himself leisure in after life to study other things and broaden his education. In this age of specialization and differentiation the great need is to select one, or at most two, departments of knowledge and devote one's chief energies to them. This is what the student should do, both before and after he has left college.

The World's Fair.

The state of the exhibits when the fair was opened reminds one of the remark of Infanta Eulalia to Mayor Harrison. "I would like to see Chicago in 80 years from now," says the infanta. "In 80 years more it will be the grandest city on earth." Just so. And the visitor who gazed upon the exposition in its opening month might well have been pardoned for wishing he could see it in about 80 years or so, after the cases had been all unpacked, the walks graded and the carpenter work finished.

The truth is that the backwardness of the exhibits even up to the middle of June is a disgrace to the American people. This was distinctly not the fault of the Chicago directory. All that man could do to urge the displays forward was done. Their forces of employees worked night and day. They were in constant communication with exhibitors, appealing to them to be ready. Worst of all, the foreign exhibits were much more complete in many cases than those from even states adjoining Illinois. The 1st of June there was still work in shops not 800 miles from Chicago that was to form part of the exposition display. It ought not to have been allowed to go in at all. In order to give American merchants and manufacturers time to get their exhibits ready let us begin as soon as this fair is over to prepare for the Columbian exposition of 1903.

The faith of the little Emperor William in "I and the Almighty" must have received a severe shock when his reading minions opened the morning paper and announced to him the result of the German elections. What must have been his feelings when he found that even Berlin had gone against his favorite army bill candidates to the extent of 90 per cent of her vote? There seems only one thing now that William can do in order to save his credit as the exponent of the divine will, and that is to turn Socialist himself and head the public sentiment of Germany, which is apparently marching pell-mell in that direction.

Within two days after the destructive fire at Fargo the announcement was made by her plucky citizens that they would reopen their business operations in tents and continue thus to hold the fort till the brick buildings, of which it was at once resolved to reconstruct the town, were completed. It is like the plucky and enterprising people of the northwest. The spirit the citizens of Fargo manifest is the same that has enabled Americans in the northwest to capture the wild fields from nature and in a few years build up a civilization which in older countries would have required half a century.

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Pay up. All parties knowing themselves indebted to me, are notified to come forward and settle without delay. Jan. 1st. N. A. MILLER. ATHENA, OREGON.

BALD HEADS! What is the condition of yours? Is your hair dry, harsh, brittle? Does it split at the ends? Has it a lifeless appearance? Does it fall out when combed or brushed? Is it full of dandruff? Does your scalp itch? Is it dry or in a heated condition? If these are some of your symptoms be warned in time or you will become bald. Skookum Root Hair Grower is what you need. Its production is not an accident, but the result of scientific research. Knowledge of the direct cause of the hair's fall is the discovery of how to treat them. Skookum is a combination of natural oils. It is not a dye, but a delicately perfumed and refreshing tonic. By stimulating the follicles, it stops falling hair, cures dandruff and grows hair on bald heads. Keep the scalp clean, healthy, and free from irritating substances by the use of Skookum Hair Soap. It contains powerful agents which feed and destroy the hair. If your druggist cannot supply you a good direct to us, and we will forward promptly, on receipt of price. Coupon, \$1.00 per bottle; 6 for \$5.00. Soap, 50c per jar; 4 for \$2.00. THE SKOOKUM ROOT HAIR GROWER CO., 27 North Fifth Avenue, New York, N. Y.

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